

Make a list of tests specifying:

Timescale

Goals

Players

Benefits

Limitations

Requirements on control architecture

TEST 1 – RHIC complex integration

Goals	operate from MCR (main control room) part of the complex not yet remotely operated (experimental magnets, polarimeters, Tandem, instrumentation houses)
Players	BNL
Benefits	improve ops, test videoconferencing between 2 control rooms (RHIC, Tandem)
Limitations	1 lab
Timescale	3-4 months
Requirements	

TEST 2 – RHIC Beam Experiment 1 – IR linear corrections

Goals	test remote operation of beam study from another lab
Players	BNL, FNAL
Benefits	Test remote ops
Limitations	experiment, not full operations
Timescale	6 months
Requirements	exporting RHIC apps to FNAL, e-logs, headsets for 2 at FNAL and 2 at BNL

TEST 3 – RHIC Beam Experiment 1 – Coherent beam-beam modes

Goals	test remote operation of beam study from another lab
Players	BNL, FNAL
Benefits	Test remote ops
Limitations	experiment, not full operations
Timescale	6 months
Requirements	exporting RHIC apps to FNAL, e-logs, headsets for 2 at FNAL and 2 at BNL

TEST 4 – RHIC Beam Experiment 3 – IR nonlinear corrections

Goals	test remote operation of beam study from another lab
Players	BNL, CERN
Benefits	Test remote ops
Limitations	experiment, not full operations
Timescale	6 months
Requirements	exporting RHIC apps to CERN, e-logs, headsets for 2 at BNL and 1 at CERN

TEST 4 – RHIC Beam Experiment 3 – Chromaticity via RF phase modulation

Goals	test remote operation of beam study from another lab
Players	BNL, CERN
Benefits	Test remote ops
Limitations	experiment, not full operations
Timescale	6 months
Requirements	exporting RHIC apps to CERN, e-logs, headsets for 2 at BNL and 1 at CERN

TEST 5 – RHIC PLL and tune feedback operations

Goals	contribute remotely to diagnosis, test and operation of RHIC PLL
Players	BNL, CERN
Benefits	remotely try an operating procedure, distribute expertise
Limitations	operation, but a limited set
Timescale	1-2 years
Requirements	exporting RHIC apps to CERN, e-logs, headsets for 2 at CERN and 1 at CERN, planning remote ops in the PLL set-up

TEST 6 – Remote participation to SNS commissioning

Goals	remote participation to SNS ring commissioning
Players	BNL, ORNL
Benefits	test of full operations remotely
Limitations	control and responsibility still at site (ORNL)
Timescale	3-4 years
Requirements	virtual SNS control room consoles at BNL

TEST 6 – US-LHC participation to LHC MD's

Goals	remote participation LHC machine development
Players	BNL, LBL, FNAL, CERN
Benefits	test of multi-lab connectivity
Limitations	control and responsibility still at site (CERN)

Timescale 5-6 years

Requirements virtual LHC control room consoles at BNL, LBL, FNAL